APPLICATION SERIAL NO: (016499-883)

FILING DATE: MAY 11, 2001

TO OZONE BLEACHING OF LOW COLUMN

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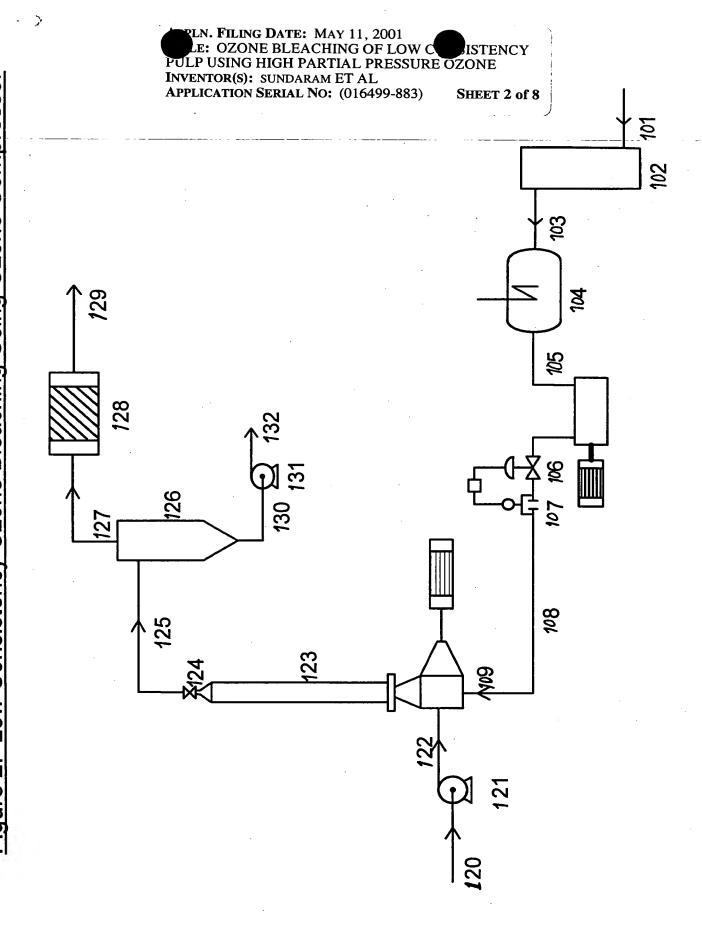
PULP USING HIGH PARTIAL PRESSURE OZONE

INVENTOR(S): SUNDARAM ET AL

APPLICATION SERIAL NO: (016499-883)

SHEET 1 of 8

SHEET 1 of 8 Figure 1: Low Consistency Ozone Bleaching Using Pressurized Ozone Generator S 26  $\infty$ 25 23



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TITE OZONE BLEACHING OF LOW CONSISTENCY
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Figure 3: Low Consistency Ozone Bleaching Before D Stage Bleaching

Using Pressurized Ozone Generator

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Figure 4: Low Consistency Ozone Bleaching Using Ozone Compressor

Before D Stage Bleaching

PUL ING HIGH PARTIAL PRESSURE OZ INVENTOR(S): SUNDARAM ET AL APPLICATION SERIAL NO: (016499-883) SHEET 5 of 8 Figure 5: Low Consistency Ozone Bleaching After D Stage Bleaching 439 1位 Using Pressurized Ozone Generator 440 431 430条 429 445 426 403 402 401 449 447

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OZONE BLEACHING OF LOW CONSISTENCY

OZONE BLEACHING OF LOW CONS SING HIGH PARTIAL PRESSURE O2 Inventor(s): Sundaram ET AL APPLICATION SERIAL NO: (016499-883) SHEET 6 of 8 338 Figure 6: Low Consistency Ozone Bleaching Using Ozone Compressor 539 मिह 532 543 543 B Stage Bleaching 531 530条 529 510 58 After D 545 504 526 503 502 501 549 547 550

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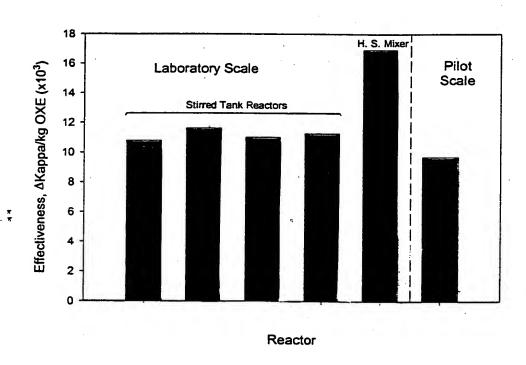
TITL ZONE BLEACHING OF LOW CONS. PULP USING HIGH PARTIAL PRESSURE OZONE

INVENTOR(S): SUNDARAM ET AL

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Figure 7 - (D/Z) Delignification Efficiency for Various Reactors at Low Consistency (2.5%-3.5%)

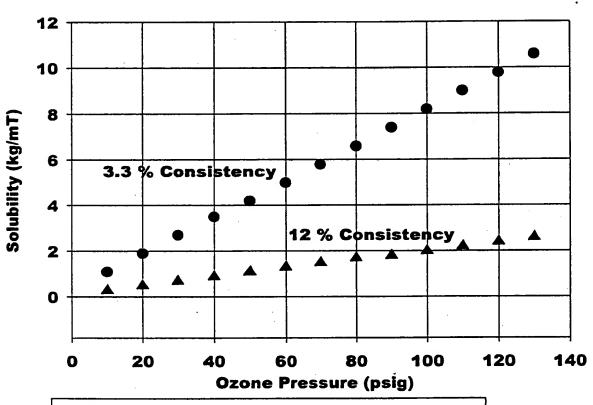


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INVENTOR(S): SUNDARAM ET AL APPLICATION SERIAL NO: (016499-883)

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Figure 8 **Ozone Solubility** 



Conditions:

Temperature - 40°C

Gas Composition to the mixer on weight % - Nitrogen - 2.4 % , Argon - 5.2 % , Ozone - 13 % , Oxygen - 79.4 %